



# FortiOS - Release Notes

VERSION 5.6.1



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FortiOS 5.6.1 Release Notes

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## Change Log

| Date       | Change Description   |
|------------|--|
| 2017-07-27 | Initial release.   |
| 2017-07-28 | Added 436437 to <i>Resolved Issues</i> .                     |
| 2017-07-31 | Added 392677 to <i>Resolved Issues</i> .                     |
| 2017-08-02 | In <i>Resolved Issues</i> , added 415416 and updated 440744. |
| 2017-08-04 | Added 442808 to <i>Known Issues</i> .                        |
| 2017-08-16 | Added 445373 to <i>Known Issues</i> .                        |
| 2017-09-05 | Added 408321 to <i>Resolved Issues</i> .                     |
| 2017-11-10 | Added 273973 to <i>Resolved Issues</i> .                     |
| 2018-01-08 | Added 454259 to <i>Known Issues</i> .                        |

# Introduction

This document provides the following information for FortiOS 5.6.1 build 1484:

- [Special Notices](#)
- [Upgrade Information](#)
- [Product Integration and Support](#)
- [Resolved Issues](#)
- [Known Issues](#)
- [Limitations](#)

For FortiOS documentation, see the [Fortinet Document Library](#).

## Supported models

FortiOS 5.6.1 supports the following models.

|                             |   |
|-----------------------------|---|
| <b>FortiGate</b>            | FG-30D, FG-30E, FG-30E_3G4G_INTL, FG-30E_3G4G_NAM, FG-30D-POE, FG-50E, FG-51E, FG-52E, FG-60D, FG-60D-POE, FG-60E, FG-61E, FG-70D, FG-70D-POE, FG-80C, FG-80CM, FG-80D, FG-80E, FG-80E-POE, FG-81E, FG-81E-POE, FG-90D, FG-90D-POE, FG-92D, FG-94D-POE, FG-98D-POE, FG-100D, FG-100E, FG-100EF, FG-101E, FG-140D, FG-140D-POE, FG-140E, FG-140E-POE, FG-200D, FG-200D-POE, FG-200E, FG-201E, FG-240D, FG-240D-POE, FG-280D-POE, FG-300D, FG-400D, FG-500D, FG-600C, FG-600D, FG-800C, FG-800D, FG-900D, FG-1000C, FG-1000D, FG-1200D, FG-1500D, FG-1500DT, FG-2000E, FG-2500E, FG-3000D, FG-3100D, FG-3200D, FG-3240C, FG-3600C, FG-3700D, FG-3800D, FG-3810D, FG-3815D, FG-5001C, FG-5001D |
| <b>FortiWiFi</b>            | FWF-30D, FWF-30E, FWF-30E_3G4G_INTL, FWF-30E_3G4G_NAM, FWF-30D-POE, FWF-50E, FWF-50E-2R, FWF-51E, FWF-60D, FWF-60D-POE, FWF-60E, FWF-61E, FWF-80CM, FWF-81CM, FWF-90D, FWF-90D-POE, FWF-92D   |
| <b>FortiGate Rugged</b>     | FGR-30D, FGR-35D, FGR-60D, FGR-90D  |
| <b>FortiGate VM</b>         | FG-SVM, FG-VM64, FG-VM64-AWS, FG-VM64-AWSONDEMAND, FG-VM64-HV, FG-VM64-KVM, FG-VMX, FG-VM64-XEN   |
| <b>Pay-as-you-go images</b> | FOS-VM64, FOS-VM64-KVM  |
| <b>FortiOS Carrier</b>      | FortiOS Carrier 5.6.1 images are delivered upon request and are not available on the customer support firmware download page.   |

## What's new in FortiOS 5.6.1

For a list of new features and enhancements that have been made in FortiOS 5.6.1, see the *What's New for FortiOS 5.6.1* document.

# Special Notices

## Built-In Certificate

FortiGate and FortiWiFi D-series and above have a built in Fortinet\_Factory certificate that uses a 2048-bit certificate with the 14 DH group.

## FortiGate and FortiWiFi-92D Hardware Limitation

FortiOS 5.4.0 reported an issue with the FG-92D model in the *Special Notices > FG-92D High Availability in Interface Mode* section of the release notes. Those issues, which were related to the use of port 1 through 14, include:

- PPPoE failing, HA failing to form
- IPv6 packets being dropped
- FortiSwitch devices failing to be discovered
- Spanning tree loops may result depending on the network topology

FG-92D and FWF-92D do not support STP. These issues have been improved in FortiOS 5.4.1, but with some side effects with the introduction of a new command, which is enabled by default:

```
config global
    set hw-switch-ether-filter <enable | disable>
```

### When the command is enabled:

- ARP (0x0806), IPv4 (0x0800), and VLAN (0x8100) packets are allowed
- BPDUs are dropped and therefore no STP loop results
- PPPoE packets are dropped
- IPv6 packets are dropped
- FortiSwitch devices are not discovered
- HA may fail to form depending the network topology

### When the command is disabled:

- All packet types are allowed, but depending on the network topology, an STP loop may result

## FG-900D and FG-1000D

CAPWAP traffic will not offload if the ingress and egress traffic ports are on different NP6 chips. It will only offload if both ingress and egress ports belong to the same NP6 chip.

## FortiClient (Mac OS X) SSL VPN Requirements

When using SSL VPN on Mac OS X 10.8, you must enable SSLv3 in FortiOS.

## FortiGate-VM 5.6 for VMware ESXi

Upon upgrading to FortiOS 5.6.1, FortiGate-VM v5.6 for VMware ESXi (all models) no longer supports the VMXNET2 vNIC driver.

## FortiClient Profile Changes

With introduction of the Security Fabric, FortiClient profiles will be updated on FortiGate. FortiClient profiles and FortiGate are now primarily used for Endpoint Compliance, and FortiClient Enterprise Management Server (EMS) is now used for FortiClient deployment and provisioning.

The FortiClient profile on FortiGate is for FortiClient features related to compliance, such as Antivirus, Web Filter, Vulnerability Scan, and Application Firewall. You may set the *Non-Compliance Action* setting to *Block* or *Warn*. FortiClient users can change their features locally to meet the FortiGate compliance criteria. You can also use FortiClient EMS to centrally provision endpoints. The EMS also includes support for additional features, such as VPN tunnels or other advanced options. For more information, see the *FortiOS Handbook – Security Profiles*.

## Use of dedicated management interfaces (*mgmt1* and *mgmt2*)

For optimum stability, use management ports (*mgmt1* and *mgmt2*) for management traffic only. Do not use management ports for general user traffic.



# Upgrade Information

## Upgrading to FortiOS 5.6.1

FortiOS version 5.6.1 officially supports upgrading from version 5.4.4, 5.4.5, and 5.6.0. To upgrade from other versions, see [Supported Upgrade Paths](#).



Before upgrading, ensure that port 4433 is not used for `admin-port` or `admin-sport` (in `config system global`), or for SSL VPN (in `config vpn ssl settings`).

If you are using port 4433, you must change `admin-port`, `admin-sport`, or the SSL VPN port to another port number before upgrading.

## Security Fabric Upgrade

FortiOS 5.6.1 greatly increases the interoperability between other Fortinet products. This includes:

- FortiAnalyzer 5.6.0
- FortiClient 5.6.0
- FortiClient EMS 1.2.1
- FortiAP 5.4.2 and later
- FortiSwitch 3.5.2 and later

Upgrade the firmware of each product in the correct order. This maintains network connectivity without the need to use manual steps.

Before upgrading any product, you must read the *FortiOS Security Fabric Upgrade Guide*.

## FortiClient Profiles

After upgrading from FortiOS 5.4.0 to 5.4.1 and later, your FortiClient profiles will be changed to remove a number of options that are no longer supported. After upgrading, review your FortiClient profiles to make sure they are configured appropriately for your requirements and either modify them if required or create new ones.

The following FortiClient Profile features are no longer supported by FortiOS 5.4.1 and later:

- Advanced FortiClient profiles (XML configuration)
- Advanced configuration, such as configuring CA certificates, unregister option, FortiManager updates, dashboard Banner, client-based logging when on-net, and Single Sign-on Mobility Agent
- VPN provisioning
- Advanced AntiVirus settings, such as Scheduled Scan, Scan with FortiSandbox, and Excluded Paths

- Client-side web filtering when on-net
- iOS and Android configuration by using the FortiOS GUI

With FortiOS 5.6.1, endpoints in the Security Fabric require FortiClient 5.6.0. You can use FortiClient 5.4.3 for VPN (IPsec VPN, or SSL VPN) connections to FortiOS 5.6.0, but not for Security Fabric functions.



It is recommended that you use FortiClient Enterprise Management Server (EMS) for detailed Endpoint deployment and provisioning.

## FortiGate-VM 5.6 for VMware ESXi

Upon upgrading to FortiOS 5.6.1, FortiGate-VM v5.6 for VMware ESXi (all models) no longer supports the VMXNET2 vNIC driver.

## Downgrading to previous firmware versions

Downgrading to previous firmware versions results in configuration loss on all models. Only the following settings are retained:

- operation mode
- interface IP/management IP
- static route table
- DNS settings
- VDOM parameters/settings
- admin user account
- session helpers
- system access profiles.

If you have long VDOM names, you must shorten the long VDOM names (maximum 11 characters) before downgrading:

1. Back up your configuration.
2. In the backup configuration, replace all long VDOM names with its corresponding short VDOM name.  
For example, replace `edit <long_vdom_name>/<short_name>` with `edit <short_name>/<short_name>`.
3. Restore the configuration.
4. Perform the downgrade.

## Amazon AWS Enhanced Networking Compatibility Issue

With this new enhancement, there is a compatibility issue with older AWS VM versions. After downgrading a 5.6.1 image to an older version, network connectivity is lost. Since AWS does not provide console access, you cannot recover the downgraded image.

When downgrading from 5.6.1 to older versions, running the enhanced nic driver is not allowed. The following AWS instances are affected:

- C3
- C4
- R3
- I2
- M4
- D2

## FortiGate VM firmware

Fortinet provides FortiGate VM firmware images for the following virtual environments:

### Citrix XenServer and Open Source XenServer

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiGate VM installation.
- `.out.OpenXen.zip`: Download the 64-bit package for a new FortiGate VM installation. This package contains the QCOW2 file for Open Source XenServer.
- `.out.CitrixXen.zip`: Download the 64-bit package for a new FortiGate VM installation. This package contains the Citrix XenServer Virtual Appliance (XVA), Virtual Hard Disk (VHD), and OVF files.

### Linux KVM

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiGate VM installation.
- `.out.kvm.zip`: Download the 64-bit package for a new FortiGate VM installation. This package contains QCOW2 that can be used by `qemu`.

### Microsoft Hyper-V

- `.out`: Download the 64-bit firmware image to upgrade your existing FortiGate VM installation.
- `.out.hyperv.zip`: Download the 64-bit package for a new FortiGate VM installation. This package contains three folders that can be imported by Hyper-V Manager on Hyper-V 2012. It also contains the file `fortios.vhd` in the Virtual Hard Disks folder that can be manually added to the Hyper-V Manager.

### VMware ESX and ESXi

- `.out`: Download either the 64-bit firmware image to upgrade your existing FortiGate VM installation.
- `.ovf.zip`: Download either the 64-bit package for a new FortiGate VM installation. This package contains Open Virtualization Format (OVF) files for VMware and two Virtual Machine Disk Format (VMDK) files used by the OVF file during deployment.

## Firmware image checksums

The MD5 checksums for all Fortinet software and firmware releases are available at the Customer Service & Support portal, <https://support.fortinet.com>. After logging in select *Download > Firmware Image Checksums*, enter the image file name including the extension, and select *Get Checksum Code*.

# Product Integration and Support

## FortiOS 5.6.1 support

The following table lists 5.6.1 product integration and support information:

|   |   |
|---|---|
| <b>Web Browsers</b>   | <ul style="list-style-type: none"><li>• Microsoft Edge 38</li><li>• Microsoft Internet Explorer version 11</li><li>• Mozilla Firefox version 54</li><li>• Google Chrome version 59</li><li>• Apple Safari version 9.1 (For Mac OS X)</li></ul> <p>Other web browsers may function correctly, but are not supported by Fortinet.</p> |
| <b>Explicit Web Proxy Browser</b>                             | <ul style="list-style-type: none"><li>• Microsoft Edge 40</li><li>• Microsoft Internet Explorer version 11</li><li>• Mozilla Firefox version 53</li><li>• Google Chrome version 58</li><li>• Apple Safari version 10 (For Mac OS X)</li></ul> <p>Other web browsers may function correctly, but are not supported by Fortinet.</p>  |
| <b>FortiManager</b>   | <p>See important compatibility information in <a href="#">Security Fabric Upgrade on page 9</a>. For the latest information, see <a href="#">FortiManager compatibility with FortiOS</a> in the Fortinet Document Library.</p> <p>Upgrade FortiManager before upgrading FortiGate.</p>  |
| <b>FortiAnalyzer</b>  | <p>See important compatibility information in <a href="#">Security Fabric Upgrade on page 9</a>. For the latest information, see <a href="#">FortiAnalyzer compatibility with FortiOS</a> in the Fortinet Document Library.</p> <p>Upgrade FortiAnalyzer before upgrading FortiGate.</p>  |
| <b>FortiClient Microsoft Windows and FortiClient Mac OS X</b> | <p>See important compatibility information in <a href="#">Security Fabric Upgrade on page 9</a>.</p> <ul style="list-style-type: none"><li>• 5.6.0</li></ul> <p>If FortiClient is being managed by a FortiGate, you must upgrade FortiClient before upgrading FortiGate.</p>  |
| <b>FortiClient iOS</b>  | <ul style="list-style-type: none"><li>• 5.4.3 and later</li></ul>   |

|  |   |
|--|---|
| <b>FortiClient Android and FortiClient VPN Android</b> | <ul style="list-style-type: none"> <li>• 5.4.1 and later</li> </ul>   |
| <b>FortiAP</b>   | <ul style="list-style-type: none"> <li>• 5.4.2 and later</li> <li>• 5.6.0</li> </ul>  |
| <b>FortiAP-S</b>                                       | <ul style="list-style-type: none"> <li>• 5.4.3 and later</li> <li>• 5.6.0</li> </ul>  |
| <b>FortiSwitch OS (FortiLink support)</b>              | <ul style="list-style-type: none"> <li>• 3.5.6 and later</li> </ul>   |
| <b>FortiController</b>                                 | <ul style="list-style-type: none"> <li>• 5.2.5 and later</li> </ul> <p>Supported models: FCTL-5103B, FCTL-5903C, FCTL-5913C</p>   |
| <b>FortiSandbox</b>                                    | <ul style="list-style-type: none"> <li>• 2.3.3 and later</li> </ul>   |
| <b>Fortinet Single Sign-On (FSSO)</b>                  | <ul style="list-style-type: none"> <li>• 5.0 build 0254 and later (needed for FSSO agent support OU in group filters) <ul style="list-style-type: none"> <li>• Windows Server 2016 Datacenter</li> <li>• Windows Server 2016 Standard</li> <li>• Windows Server 2008 (32-bit and 64-bit)</li> <li>• Windows Server 2008 R2 64-bit</li> <li>• Windows Server 2012 Standard</li> <li>• Windows Server 2012 R2 Standard</li> <li>• Novell eDirectory 8.8</li> </ul> </li> </ul> <p>FSSO does not currently support IPv6.</p> |
| <b>FortiExtender</b>                                   | <ul style="list-style-type: none"> <li>• 3.1.1 and later</li> </ul>   |
| <b>AV Engine</b>                                       | <ul style="list-style-type: none"> <li>• 5.247</li> </ul>   |
| <b>IPS Engine</b>                                      | <ul style="list-style-type: none"> <li>• 3.426</li> </ul>   |
| <b>Virtualization Environments</b>                     |   |
| <b>Citrix</b>  | <ul style="list-style-type: none"> <li>• XenServer version 5.6 Service Pack 2</li> <li>• XenServer version 6.0 and later</li> </ul>   |
| <b>Linux KVM</b>                                       | <ul style="list-style-type: none"> <li>• RHEL 7.1/Ubuntu 12.04 and later</li> <li>• CentOS 6.4 (qemu 0.12.1) and later</li> </ul>   |
| <b>Microsoft</b>                                       | <ul style="list-style-type: none"> <li>• Hyper-V Server 2008 R2, 2012, and 2012 R2</li> </ul>   |
| <b>Open Source</b>                                     | <ul style="list-style-type: none"> <li>• XenServer version 3.4.3</li> <li>• XenServer version 4.1 and later</li> </ul>  |

**VMware**

- ESX versions 4.0 and 4.1
- ESXi versions 4.0, 4.1, 5.0, 5.1, 5.5, 6.0, and 6.5

**VM Series - SR-IOV**

The following NIC chipset cards are supported:

- Intel 82599
- Intel X540
- Intel X710/XL710



FortiGate-VM v5.6 for VMware ESXi (all models) no longer supports the VMXNET2 vNIC driver.

## Language support

The following table lists language support information.

### Language support

| Language              | GUI |
|-----------------------|-----|
| English               | ✓   |
| Chinese (Simplified)  | ✓   |
| Chinese (Traditional) | ✓   |
| French                | ✓   |
| Japanese              | ✓   |
| Korean                | ✓   |
| Portuguese (Brazil)   | ✓   |
| Spanish (Spain)       | ✓   |

## SSL VPN support

### SSL VPN standalone client

The following table lists SSL VPN tunnel client standalone installer for the following operating systems.

#### Operating system and installers

| Operating System                       | Installer  |
|--|--|
| Linux CentOS 6.5 / 7 (32-bit & 64-bit) | 2333. Download from the Fortinet Developer Network <a href="https://fndn.fortinet.net">https://fndn.fortinet.net</a> . |
| Linux Ubuntu 16.04                     |  |

Other operating systems may function correctly, but are not supported by Fortinet.



SSL VPN standalone client no longer supports the following operating systems:

- Microsoft Windows 7 (32-bit & 64-bit)
- Microsoft Windows 8 / 8.1 (32-bit & 64-bit)
- Microsoft Windows 10 (64-bit)
- Virtual Desktop for Microsoft Windows 7 SP1 (32-bit)

### SSL VPN web mode

The following table lists the operating systems and web browsers supported by SSL VPN web mode.

#### Supported operating systems and web browsers

| Operating System                            | Web Browser                            |
|---|--|
| Microsoft Windows 7 SP1 (32-bit & 64-bit)   | Microsoft Internet Explorer version 11 |
| Microsoft Windows 8 / 8.1 (32-bit & 64-bit) | Mozilla Firefox version 54             |
|   | Google Chrome version 59               |
| Microsoft Windows 10 (64-bit)               | Microsoft Edge                         |
|   | Microsoft Internet Explorer version 11 |
|   | Mozilla Firefox version 54             |
|   | Google Chrome version 59               |
| Linux CentOS 6.5 / 7 (32-bit & 64-bit)      | Mozilla Firefox version 54             |



| Operating System | Web Browser  |
|------------------|--|
| Mac OS 10.11.1   | Apple Safari version 9<br>Mozilla Firefox version 54<br>Google Chrome version 59 |
| iOS              | Apple Safari<br>Mozilla Firefox<br>Google Chrome                                 |
| Android          | Mozilla Firefox<br>Google Chrome   |

Other operating systems and web browsers may function correctly, but are not supported by Fortinet.

## SSL VPN host compatibility list

The following table lists the antivirus and firewall client software packages that are supported.

### Supported Microsoft Windows XP antivirus and firewall software

| Product                           | Antivirus | Firewall |
|-----------------------------------|-----------|----------|
| Symantec Endpoint Protection 11   | ✓         | ✓        |
| Kaspersky Antivirus 2009          | ✓         |          |
| McAfee Security Center 8.1        | ✓         | ✓        |
| Trend Micro Internet Security Pro | ✓         | ✓        |
| F-Secure Internet Security 2009   | ✓         | ✓        |

### Supported Microsoft Windows 7 32-bit antivirus and firewall software

| Product                                  | Antivirus | Firewall |
|--|-----------|----------|
| CA Internet Security Suite Plus Software | ✓         | ✓        |
| AVG Internet Security 2011               |           |          |
| F-Secure Internet Security 2011          | ✓         | ✓        |
| Kaspersky Internet Security 2011         | ✓         | ✓        |

| Product  | Antivirus | Firewall |
|--|-----------|----------|
| McAfee Internet Security 2011                            | ✓         | ✓        |
| Norton 360™ Version 4.0                                  | ✓         | ✓        |
| Norton™ Internet Security 2011                           | ✓         | ✓        |
| Panda Internet Security 2011                             | ✓         | ✓        |
| Sophos Security Suite                                    | ✓         | ✓        |
| Trend Micro Titanium Internet Security                   | ✓         | ✓        |
| ZoneAlarm Security Suite                                 | ✓         | ✓        |
| Symantec Endpoint Protection Small Business Edition 12.0 | ✓         | ✓        |

# Resolved Issues

The following issues have been fixed in version 5.6.1. For inquiries about a particular bug, please contact [Customer Service & Support](#).

## Antivirus

| Bug ID | Description   |
|--------|---|
| 374969 | FortiSandbox FortiView may not correctly parse the FSA v2.21 tracer file (.json). |
| 398332 | FortiSandbox results are not showing up in FortiView > FortiSandbox.              |
| 408147 | Virus detected with correct name but wrong <code>virusid</code> .                 |
| 411432 | <code>scanunitd</code> causes high CPU usage when making configuration changes.   |

## Authentication

| Bug ID | Description  |
|--------|--|
| 402621 | Radius <i>Accounting Packet Calling-Station-ID</i> field should return MAC address instead of IP address.                  |
| 403147 | Cannot create guest users with short phone number.   |
| 412846 | Google Chrome browser display <code>NET : :ERR_CERT_COMMON_NAME_INVALID</code> certificate warning on authentication page. |
| 416618 | LDAP does not work when number of matching entries is even in user group.  |
| 437204 | <code>authd</code> sends malformed NTLM TYPE2 to browser and breaks NTLM authentication.                                   |
| 438972 | Nested Groups in LDAP authentication does not work when the <i>Domain users</i> in AD is not the Primary Group.            |

## DLP

| Bug ID | Description  |
|--------|--|
| 367514 | Executable files may not be blocked by DLP built-in .exe file-type filter. |
| 416469 | DLP quarantined IP when the action is set to block/log-only.               |
| 422355 | DLP file-type filter cannot detect .mov file during file upload.           |

**DNSFilter**

| Bug ID | Description  |
|--------|--|
| 414243 | DNSFilter local FortiGuard SDNS servers failed to respond due to malformed packet. |
| 422407 | <code>dnsproxy</code> causes high CPU usage and degradation of DNS traffic.        |

**FOC**

| Bug ID | Description   |
|--------|---|
| 406692 | GTP <code>noip-filter</code> blocking IPv6 gtp-u traffic.                     |
| 412883 | Over-subscription of TP2 XAUI when running GTP in LAG with FG3700DX platform. |

**FortiGate 92D**

| Bug ID | Description                                  |
|--------|--|
| 412432 | <code>fgt92d_link</code> running in D state. |

**FortiLink**

| Bug ID | Description   |
|--------|---|
| 422750 | FortiGate sending corrupted configuration to FortiSwitch.             |
| 435219 | <code>cu_acd</code> causing memory leak leading to Conserve Mode.     |
| 438973 | Managed FortiSwitch speed setting not synced in FortiGate HA cluster. |

**FortiView**

| Bug ID | Description   |
|--------|---|
| 378576 | The All Sessions > filter application on historical view does not work and suggests adding filter for destination port. |
| 390495 | Unable to view web sites in FortiView for 5 minutes, 1 hour, and 24 hours.  |

**Firewall**

| Bug ID | Description   |
|--------|---|
| 305575 | In the Policy List, the NAT column can give more useful information.        |
| 416111 | FQDN address is unresolved in a VDOM, although the URL is resolved with IP. |

| Bug ID | Description   |
|--------|---|
| 416678 | FG-100E and FG-101E may have firewall lockups in production.                                |
| 424558 | Renaming onetime schedule causes policy activation.   |
| 433688 | Netflow report for a long, live FTP session is incorrect.                                   |
| 435070 | Full Cone NAT not working for WhatsApp video and voice call.                                |
| 435095 | FortiOS ICMP replies or error messages are dropped when asymmetric routing is involved.     |
| 435700 | RSTP session-helper does not modify the IP in describe payload when the server IP is a VIP. |

## GUI

| Bug ID | Description   |
|--------|---|
| 310497 | Improve GUI error message when trying to create a VLAN interface and physical interface is not selected.          |
| 368069 | Cannot select <code>wan-load-balance</code> or members for incoming interface of IPsec tunnel.                    |
| 373546 | Only 50 security logs may be displayed in the Log Details pane when more than 50 are triggered.                   |
| 373602 | Cannot access <i>System &gt; Advanced</i> from the GUI - page keep loading.                                       |
| 374373 | <i>Policy View: Filter</i> bar may display the IPv4 policy name for the IPv6 policy.                              |
| 380943 | Webfilter profile, GUI to support search in URL filter table.   |
| 388104 | Interface list <i>expand</i> column display improperly in VLAN interface in a Zone.                               |
| 394359 | REST API firewall policy lookup does not work properly.   |
| 397010 | GUI does not display the <code>App-DB</code> and <code>INDUSTRIAL-DB</code> information.                          |
| 398394 | Log viewer, negative filter for severity Information field cannot be done manually.                               |
| 407938 | <code>device-access-list</code> configuration is removed when making a change to the interface in the GUI.        |
| 408577 | Admin and FortiClient profile cannot be displayed when language is Japanese.                                      |
| 413754 | GUI create VDOM link on TP VDOM fails with error.   |
| 413891 | In <i>Topology &gt; FortiAnalyzer</i> , clicking <i>Configure setting</i> redirects to VDOM security fabric page. |

| Bug ID | Description   |
|--------|---|
| 413921 | In FSSO standard mode, context menu allows you to delete ad-groups polled from CA.                                      |
| 415326 | CLI configuration for address object allows IP range 0.0.0.0-x.x.x.x, but not in GUI.                                   |
| 418534 | IP address, DHCP, allowaccess disappeared when selecting a local-bridge SSID as a member in soft-switch interface.      |
| 421263 | Multiple wildcard login accounts gives wrong guest account provisioning when <code>Post-login-banner</code> is enabled. |
| 423410 | Zone interface shows as down in the IPv4 Policy page even when its member is up.  |
| 434613 | GUI cannot select HA monitor interfaces in other VDOMs.   |
| 438709 | GUI system time is incorrect when setting timezone.   |
| 438948 | <i>Address object length name</i> is limited in CLI Console tool.   |
| 441350 | Trying to access the root FortiGate Security Fabric dashboard produces <code>Error 404</code> .                         |

## HA

| Bug ID | Description   |
|--------|---|
| 392677 | The HA widget shows the slave status as <i>Not Synchronized</i> even when the status is synchronized. |
| 404089 | Uninterruptible upgrade fails because routes are not yet synced with new master.                      |
| 414336 | Slave cannot sync to master with redundant interface.   |
| 416673 | The <i>System &gt; HA</i> pane is not in the GUI. HA is supported and can be configured in the CLI.   |
| 421639 | HA kernel routes are not flushed after failover when cluster has a large number of routes.            |
| 423144 | Reliable syslog using dedicated HA management interface doesn't work.                                 |
| 434800 | SNMP trap does not reach SNMP server via HA Master when hbdev interface is up.                        |
| 437390 | HA failover triggered before <code>pingserver-failover-threshold</code> is reached.                   |
| 438374 | HA reserved management interface unable to access or ping.  |

**IPS**

| Bug ID | Description  |
|--------|--|
| 412470 | When a firewall policy is deleted, traffic is lost.  |
| 417411 | One-ARM sniffer logs sent/revd shown in reverse direction.   |
| 434478 | Information incorrect in <code>diag test app ipsmonitor 13</code> .                                |
| 434592 | <code>Ethernet.IP</code> is not recognized in <code>ICS app ctrl</code> signature by sniffer mode. |

**IPsec**

| Bug ID | Description  |
|--------|--|
| 401847 | Half of IPsec tunnels traffic lost 26 minutes after powering on a spare FG-1500D.  |
| 408321 | If phase2 proposal is configured as <code>NULL-MD5</code> encryption, the remote gateway in <code>diag vpn tunnel list</code> is changed after receiving traffic from IPsec tunnel.  |
| 412863 | NP6 drops fragment packet with payload 15319 bytes or higher.  |
| 412987 | IPsec VPN certificate not validated against PKI user's CN and Subject.   |
| 414899 | Apple Cisco IPsec VPN group name (IKE ID) length limit.  |
| 415353 | Telnet connection timing out with IPsec through MPLS when offloading is enabled.   |
| 435124 | Cannot establish IPsec phase1 tunnel after upgrading from version 5.4.5 to 5.6.0. Workaround: After upgrading to 5.6.0, reconfigure all IPsec phase1 <code>psksecret</code> settings.  |
| 438648 | <code>outbound enable</code> not set on bi-directional IPsec policy.   |
| 439923 | For FG-60E, 12-character FQDN Peer ID causes communication failure.  |
| 440615 | When <code>monitor-hold-down-delay</code> is used in IKEv2 then the value of <code>monitor-hold-down-delay</code> has no effect and so once the IKE SA for the primary tunnel is established, it immediately takes the secondary down. |

**Log & Report**

| Bug ID | Description  |
|--------|--|
| 386668 | FortiGate sends FortiAnalyzer different time stamps from its disk log. |
| 391013 | Some traffic flow does not show in traffic log.                        |

| Bug ID | Description  |
|--------|--|
| 396319 | For the <code>NGFW_vdom</code> , the application UTM log action is always <code>PASS</code> when firewall policy deny the traffic. |
| 409831 | Traffic statistic not tally in report.   |
| 413778 | With long VDOM names, no log is displayed when only one field subtype forward is added to traffic log filter.                      |
| 417128 | Syslog message are missed in FortiGate.  |

## Proxy

| Bug ID | Description  |
|--------|--|
| 414496 | URL getting <i>Blocked - IPS Sensor Triggered</i> .  |
| 415627 | After upgrading to 5.6, certificate inspection causes certificate warning.   |
| 418193 | Some HTTPS sites show <i>Secure Connection Failed</i> (static URL filter only flow-based webfilter, certificate inspection). |
| 424362 | Multiple crashes of WAD process.   |
| 437990 | MiTM Proxy mode <code>HTTPS Interception Weakens TLS Security</code> .   |

## Router

| Bug ID | Description   |
|--------|---|
| 397087 | VRIP cannot be reached on FG-51E when it is acting as VRRP master.                    |
| 412336 | Specific static route on vwl member interface should not be controlled by vwl status. |
| 415366 | WAN LLB with IP pools configured for two ISP connections.                             |
| 424381 | TCP sessions are stuck or time out randomly.  |
| 434026 | SD-WAN health check does not remove route.  |



**Security Fabric**

| Bug ID | Description   |
|--------|---|
| 385341 | If there are multiple FortiAPs managed, GUI cannot display managed FortiAPs in <i>FortiView</i> > <i>Physical Topology</i> page.              |
| 403085 | The session tab cannot be displayed on historical page when you drill down.   |
| 406561 | Matching username is not highlighted in tooltip after topology search.  |
| 408495 | An improper warning message may appear in the FortiAnalyzer log when changing the root FortiGate to a downstream FortiGate.                   |
| 411479 | The icon used to signify the source of logs when the time range is set to <i>now</i> is incorrect.  |
| 411645 | Drilling down from a root FortiGate to a downstream FortiGate causes an error.  |
| 412104 | The drill down for an aggregated device is not displayed as an individual device.   |
| 412249 | Threats of a downstream FortiGate cannot be displayed on the root FortiGate.  |
| 412930 | The <i>Security Audit Event</i> is not hidden on Security Fabric child nodes.   |
| 413189 | The bubble chart with FortiAnalyzer view may not be drawn correctly.  |
| 413492 | Security Fabric topology change can cause high CPU usage by <code>miglogd</code> on Security Fabric root.                                     |
| 413742 | In Security Fabric topology, the red circle to indicate the root node of the Security Fabric should not be displayed on each child FortiGate. |
| 413912 | In Security Fabric topology, the upstream FortiGate can still be displayed when Security Fabric is disabled on a downstream FortiGate.        |
| 414147 | In Security Fabric topology, the topology cannot be updated after changing the upstream port on a child FortiGate.                            |
| 414301 | Security Fabric topology is not displayed due to js error <code>Cannot read property 'VDOM' of undefined</code> .                             |

**SLBC**

| Bug ID | Description  |
|--------|--|
| 378207 | <code>authd</code> process causes high CPU usage when only RSSO logging is configured. |

## Spam

| Bug ID | Description  |
|--------|--|
| 398277 | Application scanunit crashes with <code>signal 6 received</code> .                         |
| 408971 | Management Traffic is sent out via wrong interface in Virtual WAN Link.                    |
| 410420 | Spam emails are exempted if they are sent in one session.                                  |
| 416790 | <code>(no.x pattern matched)</code> is not logged when bwl matches envelop MAIL FROM.      |
| 424443 | Client behind FG-60E cannot get bounced mail when sending a spam mail to Hotmail /Outlook. |

## SSL VPN

| Bug ID | Description  |
|--------|--|
| 304528 | SSL VPN Web Mode PKI user might immediately log back in even after logging out.  |
| 380974 | Possible root cause of SSL VPN fail with <code>error:0B080074: ..X509_check_private_key:key values mismatch</code> /ApacheSSLSetCertStuff. |
| 396788 | SSL VPN GUI is unable to keep SSO password information for user bookmark.  |
| 399784 | URL modified incorrectly in a dropdown list in application server.   |
| 406028 | Citrix with Xenapp 7.x not working via SSL VPN web portal.   |
| 408624 | SSL VPN certificate UPN+LDAP authentication works only on first policy.  |
| 412850 | SSL VPN portal redirect fails with a Javascript error.   |
| 413758 | Auto-generated SSL interface do not associate with <code>SSLVPN_TUNNEL_ADDR1</code> for a long name VDOM.                                  |
| 414074 | Application with Jira 7.2 and higher does not display properly in SSL VPN web mode.  |
| 415543 | Request ability to exclude certain services from being created via personal bookmark.  |
| 415746 | SSO on SSL VPN HTTP bookmark uses OTP instead of password in Auth HTTP header field when user authenticates via TFA.                       |
| 423415 | Incorrectly resolved membership for group members using SSL VPN.   |
| 424561 | SSL VPN web mode has trouble loading certain page in HTTP/HTTPS bookmark.  |
| 433779 | RDP bookmark doesn't work after upgrading to 5.6.  |
| 438004 | A bookmark having access link to a web page does not work via SSL VPN web mode.  |

## System

| Bug ID            | Description  |
|-------------------|--|
| 383126            | FG-50E/FG-51E TP mode - STP BPDU forwarding destined to 01:80:c2:00:00:00 stops after warm/cold reboot.  |
| 396781            | Interface policy cannot block traffic encapsulated in PPPoE.   |
| 403572            | Fragmentation not working on VLAN with <code>mtu-override</code> on NP6.   |
| 410463            | SNMP is not responding when queried on a loopback IP address with an asymmetric SNMP packet path.  |
| 412184            | If you use port 4433 for the <code>admin-port</code> , <code>admin-sport</code> , you cannot access GUI anymore.   |
| 412244            | Fortitoken Mobile push won't work when VDOM is enabled.  |
| 413885            | <code>long-vdom-name</code> of global setting is disabled after <code>exe factoryrest2</code> .  |
| 413909,<br>404337 | The <i>diagnose hardware test system cpu</i> , <i>diagnose hardware test cpu model</i> , and <i>diagnose hardware test bios</i> fail to produce a correct hardware report.<br>Affected models: FortiGate / FortiWiFi 30E, 50E, 51E, 52E, 60E, 61E, 80E, 81E, 100E, 100EF, 101E, and 140E series. |
| 414242            | Offload not supported on 200E aggregate interfaces.  |
| 414482            | The pre-allocated size for interface cache and policy cache is not big enough.   |
| 415555            | IPv6 <code>ipv6-neighbor-cache</code> configuration is lost after a reboot or flush command.   |
| 416950            | NP6 stops process traffic through IPsec tunnel.  |
| 417644            | When remote wildcard admin with Radius <code>accprofile-override</code> is enabled (super admin), restoring config fails on slave.   |
| 420150            | NTPv3 with authentication enabled fails with error <code>receive: authentication failed</code> .   |
| 421813            | With VDOM enabled, after restoring a VDOM, the members of a zone are removed.  |
| 422414            | FG-90D + FG-100D modem port not responding.  |
| 422755            | FG-60D removes session unexpectedly - <code>memory_tension_drop</code> increase even though memory usage is very low.  |
| 423039            | After the upgrade from 5.4.4 to 5.6.0, FortiGate cannot receive public IP with Netgear Aircard 341U.   |

| Bug ID | Description   |
|--------|---|
| 423375 | Some configurations are missing in the output of show full-configuration.                                 |
| 424213 | Cluster virtual MAC address is changed to physical port MAC address when ports are assigned on MGMT-VDOM. |
| 434480 | Admin user session does not time out.   |
| 434823 | Firewall system halted when the sniffer is enabled in console.  |
| 436211 | Kernel conserve mode due to memory leak.  |
| 436437 | FortiGate cannot apply the FortiClient renew license from FortiGuard server.                              |
| 437599 | ICMP unreachable packet is blocked by transparent FortiGate.  |
| 438197 | PPPoE connection is disrupted by HA failover/failback.  |
| 438944 | BPDU frames are not changed in TP mode when one arm is connected to multiple VLANs.                       |
| 439897 | Virtual wire pair on asymmetric environment issue.  |
| 440041 | DHCPv6 seems to fail when <code>ip6-mode</code> is DHCP – failed to assign link-local address.            |

## Upgrade

| Bug ID | Description  |
|--------|--|
| 273973 | When upgrading from 5.2 to 5.4, the Central NAT feature cannot be upgraded. After the upgrade, reconfigure the Central NAT feature. Please see the configuration examples in the FortiOS Handbook available in the <a href="#">Fortinet Document Library</a> . |

## User

| Bug ID | Description  |
|--------|--|
| 378085 | User authentication timeout max setting change.  |
| 410901 | PKI peer CA search stops on first match based on CA subject name.  |
| 412487 | <i>RSSO Endpoint Storage</i> limits the number of characters to 48.  |
| 421456 | FortiGate cannot authenticate with Cisco ISE Radius and token.   |
| 434849 | <i>Guest User Email Template</i> cut off when emailed to the recipient.                                      |
| 439760 | User name is not visible in logs and on blocking page when using explicit proxy and Kerberos authentication. |

**VM**

| Bug ID | Description   |
|--------|---|
| 414402 | vmtoolsd continuously crashes.  |
| 414811 | Restore NIC offload capabilities on FortiGate KVM VM.   |
| 416783 | FortiGate Image for ESXi loses interface information when <code>reboot-upon-config-restore</code> is disabled and a config is restored. |
| 438174 | Fortinet VM Product range device detection improved.  |

**VoIP**

| Bug ID | Description  |
|--------|--|
| 423437 | SIP ALG does not translate all MSRP SEND messages if more than one SEND message is contained within a single packet. |

**WebProxy**

| Bug ID | Description  |
|--------|--|
| 398405 | WAD crashes without backtrace - WAF HTTP header matching problem.  |
| 406292 | After update to 5.4.3 (B1111), WAD sometimes crashes.  |
| 415385 | Explicit FTP proxy issue on zero file size transfers.  |
| 417491 | WAD crashes when handling FTP over HTTP traffic.   |
| 421092 | WAD consuming memory when explicit webproxy is used.   |
| 423077 | WAD crashed after upgrading from 5.2.10 to 5.4.4 GA release.   |
| 423128 | Unable to access <code>www.ch.endress.com</code> when deep inspection is enabled on explicit-proxy policy. |
| 424208 | Expired certificates with valid issuers are treated as untrusted.  |
| 438759 | TeamViewer not blocked with explicit proxy application control with SSL "deep inspection".                 |

## WiFi

| Bug ID | Description  |
|--------|--|
| 396580 | Memory leak and crash reported for <code>hostapd</code> .  |
| 409110 | Web page override login page loads slowly.   |
| 413214 | Remote APs traffic not working.  |
| 413693 | WPA_Enterprise with Radius Auth mode fails with VDOM that has a long VDOM name.                                  |
| 417001 | Explicit HTTP proxy drops HTTPS connections on WiFi rating failures.   |
| 420967 | Proxy AV + Proxy WF + SSL Certificate Inspection (Inspect All Ports) results in HTTPS traffic bypassing WiFi.    |
| 423020 | Regex value changes in the URL filter.   |
| 436354 | Replace Message Group <i>Web Filter Block Override</i> page not working.   |
| 438003 | Part of APs failed to be managed by FortiGate because <code>cw_acd</code> crashed in CMCC portal authentication. |

## Common Vulnerabilities and Exposures

| Bug ID | Description   |
|--------|---|
| 409913 | FortiOS5.6.1 is no longer vulnerable to the following CVE Reference:<br><ul style="list-style-type: none"> <li>• 2017-3130</li> </ul> Visit <a href="https://fortiguard.com/psirt">https://fortiguard.com/psirt</a> for more information.   |
| 414418 | FortiOS5.6.1 is no longer vulnerable to the following CVE Reference:<br><ul style="list-style-type: none"> <li>• 2017-3131</li> <li>• 2017-3132</li> <li>• 2017-3133</li> </ul> Visit <a href="https://fortiguard.com/psirt">https://fortiguard.com/psirt</a> for more information. |
| 415416 | FortiOS5.6.1 is no longer vulnerable to the following CVE Reference: Visit<br><ul style="list-style-type: none"> <li>• 2017-7733</li> </ul> <a href="https://fortiguard.com/psirt">https://fortiguard.com/psirt</a> for more information.   |
| 416322 | FortiOS5.6.1 is no longer vulnerable to the following CVE Reference:<br><ul style="list-style-type: none"> <li>• 2017-2636</li> </ul> Visit <a href="https://fortiguard.com/psirt">https://fortiguard.com/psirt</a> for more information.   |
| 416914 | FortiOS5.6.1 is no longer vulnerable to the following CVE Reference:<br><ul style="list-style-type: none"> <li>• 2016-10229</li> </ul> Visit <a href="https://fortiguard.com/psirt">https://fortiguard.com/psirt</a> for more information.  |

| Bug ID | Description  |
|--------|--|
| 421539 | FortiOS5.6.1 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none"><li>• 2009-3555</li></ul> Visit <a href="https://fortiguard.com/psirt">https://fortiguard.com/psirt</a> for more information. |
| 422133 | FortiOS5.6.1 is no longer vulnerable to the following CVE Reference: <ul style="list-style-type: none"><li>• 2009-3555</li></ul> Visit <a href="https://fortiguard.com/psirt">https://fortiguard.com/psirt</a> for more information. |
| 438599 | FortiOS: SHA1-intermediate is not transferred to browser after proxy DPI.  |
| 440744 | FortiOS5.6.1 is no longer vulnerable to the following CVE Reference: Visit <ul style="list-style-type: none"><li>• 2017-7739</li></ul> <a href="https://fortiguard.com/psirt">https://fortiguard.com/psirt</a> for more information. |

# Known Issues

The following issues have been identified in version 5.6.1. For inquiries about a particular bug or to report a bug, please contact [Customer Service & Support](#).

## Application Control

| Bug ID | Description   |
|--------|---|
| 435951 | Traffic keeps going through the <code>DENY</code> NGFW policy configured with URL category.     |
| 441996 | No UTM AppCtrl log for signature <code>Gmail_Attachment.Download</code> when action is blocked. |

## Firewall

| Bug ID | Description   |
|--------|---|
| 434959 | NGFW policy with App Control policy blocks traffic. |

## FortiGate 3815D

| Bug ID | Description                                     |
|--------|---|
| 385860 | FG-3815D does not support 1GE SFP transceivers. |

## FortiLink

| Bug ID | Description  |
|--------|--|
| 434470 | Explicit policy for traffic originating from interface dedicated to FortiLink.                                 |
| 441300 | Limited options in FortiLink quarantine stanza to use, giving users no way to trigger the quarantine function. |

## FortiSwitch-Controller/FortiLink

| Bug ID | Description  |
|--------|--|
| 304199 | Using HA with FortiLink can encounter traffic loss during failover.                          |
| 357360 | DHCP snooping may not work on IPv6.  |
| 369099 | FortiSwitch authorizes successfully, but fails to pass traffic until you reboot FortiSwitch. |



| Bug ID | Description   |
|--------|---|
| 404399 | FortiLink goes down when connecting to FortiSwitch 3.4.2 b192.  |
| 408082 | Operating a dedicated hardware switch into FortiLink changes STP from <i>enable</i> to <i>disable</i> .   |
| 415380 | DHCP snooping enabled on FortiSwitch VLAN interfaces may prevent clients from obtaining addresses through DHCP.<br>Workaround: disable <code>switch-controller-dhcp-snooping</code> on FortiLink VLAN interfaces. |
| 445373 | For 802.1X, FortiSwitch port disappeared after upgrading FortiGate from 5.6.0 to 5.6.1 with 802.1X enabled without security-group/user-group.   |

### FortiView

| Bug ID | Description   |
|--------|---|
| 366627 | FortiView Cloud Application may display the incorrect drill down <i>File and Session</i> list in the <i>Applications View</i> . |
| 368644 | <i>Physical Topology: Physical Connection</i> of stacked FortiSwitch may be incorrect.  |
| 375172 | FortiGate under a FortiSwitch may be shown directly connected to an upstream FortiGate.   |
| 402507 | In physical/logical topology, threat drill down fails and keeps GUI loading unexpectedly.                                       |
| 408100 | Log fields are not aligned with columns after drill down on FortiView and Log details.  |
| 441835 | Drill down a auth-failed wifi client entry in "Failed Authentication" could not display detail logs when CSF enabled.           |
| 442238 | FortiView VPN map can't display Google map (199 dialup VPN tunnel).   |
| 442367 | In <i>FortiView &gt; Cloud Applications</i> , when the cloud users column is empty, drill down will not load.                   |

### GUI

| Bug ID | Description   |
|--------|---|
| 374247 | GUI list may list another VDOM interface when editing a redundant interface.  |
| 375036 | The <i>Archived Data</i> in the <i>Sniffer Traffic</i> log may not display detailed content and download.                                       |
| 375383 | If the policy includes the <i>wan-load-balance</i> interface, the policy list page may receive a javascript error when clicking the search box. |

| Bug ID | Description   |
|--------|---|
| 398397 | Slowness in accessing <i>Policy</i> and <i>Address</i> page in GUI after upgrading from 5.2.2 to 5.4.1. |
| 402775 | Add multiple ports and port range support in the explicit FTP/web proxy.                                |
| 403146 | Slow GUI <i>Policy</i> tab with more than 600 policies.   |
| 412401 | Incorrect throughput reading in <i>GUI-System-HA</i> page.  |
| 439185 | AV quarantine cannot be viewed and downloaded from detail panel when source is FortiAnalyzer.           |
| 442231 | Link cannot show different colors based on link usage legend in logical topology real time view.        |
| 454259 | The <i>Policy</i> list page does not display tooltips for policy comments.                              |

## HA

| Bug ID | Description  |
|--------|--|
| 439152 | FGSP - standalone config sync - synchronizes BGP neighbor.   |
| 441078 | The time duration of packet-transporting process stops to pre-master node after HA failover takes too long.                      |
| 441716 | Traffic stops when <code>load-balance-all</code> is enabled in active-active HA when <code>npu_vlink</code> is used in the path. |
| 436585 | Issues with different hardware generation when operating in a HA cluster.  |

## IPsec

| Bug ID | Description  |
|--------|--|
| 416102 | Traffic over IPsec VPN gets dropped after two pings when it is getting offloaded to NPU. |

## Log & Report

| Bug ID | Description  |
|--------|--|
| 412649 | In NGFW Policy mode, FGT does not create webfilter logs.                               |
| 438858 | Synchronized log destination with <i>Log View</i> and <i>FortiView</i> display source. |
| 441476 | Rolled log file is not uploaded to FTP server by <code>max-log-file-size</code> .      |

## Proxy

| Bug ID | Description  |
|--------|--|
| 442252 | WAD stops forwarding traffic on both transparent proxy and explicit web proxy after IPS test over web proxy. |

## Security Fabric

| Bug ID | Description   |
|--------|---|
| 403229 | In FortiView display from FortiAnalyzer, the upstream FortiGate cannot drill down to final level for downstream traffic.          |
| 409156 | In Security Fabric Audit, The unlicensed FDS FortiGate shouldn't be marked <i>Passed</i> in <i>Firmware &amp; Subscriptions</i> . |
| 411368 | In FortiView with FortiAnalyzer, the combined MAC address is displayed in the <i>Device</i> field.                                |
| 414013 | Log Settings shows <code>Internal CLI error</code> when enabling historical FortiView at the same time as disk logging.           |

## SSL VPN

| Bug ID | Description  |
|--------|--|
| 405239 | URL rewritten incorrectly for a specific page in application server. |
| 442808 | SSL VPN signal 11 crash on corporate firewall.                       |

## System

| Bug ID | Description   |
|--------|---|
| 290708 | <code>nturbo</code> may not support CAPWAP traffic.   |
| 295292 | If <code>private-data-encryption</code> is enabled, when restoring config to a FortiGate, the FortiGate may not prompt the user to enter the key. |
| 304199 | FortiLink traffic is lost in HA mode.   |
| 364280 | User cannot use <code>ssh-dss</code> algorithm to login to FortiGate via SSH.   |
| 436580 | <code>PDQ_ISW_SSE</code> drops at +/-100K CPS on FG-3700D with FOS 5.4 only.  |
| 436746 | NP6 counter shows packet drops on FG-1500D. Pure firewall policy without UTM.   |
| 437801 | FG-30E WAN interface MTU override drop packet issue.  |

| Bug ID | Description  |
|--------|--|
| 438405 | HRX/PKTCHK drops over NP6 with 1.5 Gbps.   |
| 439126 | Auto-script using diagnose command fails with <code>Unknown action 0</code> after rebooting FortiGate. |
| 439553 | Virtual wire pair config missing after reboot.   |
| 440411 | Monitor NP6 IPsec engine status.   |
| 440412 | SNMP trap for per-CPU usage.   |
| 440448 | FG-800C will not get IP on the LTE-modem interface using Novatel U620.                                 |
| 441532 | Suggest to add SNMP/CLI monitoring capabilities of NP6 session table.                                  |

# Limitations

## Citrix XenServer limitations

The following limitations apply to Citrix XenServer installations:

- XenTools installation is not supported.
- FortiGate-VM can be imported or deployed in only the following three formats:
  - XVA (recommended)
  - VHD
  - OVF
- The XVA format comes pre-configured with default configurations for VM name, virtual CPU, memory, and virtual NIC. Other formats will require manual configuration before the first power on process.

## Open Source XenServer limitations

When using Linux Ubuntu version 11.10, XenServer version 4.1.0, and libvir version 0.9.2, importing issues may arise when using the QCOW2 format and existing HDA issues.



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